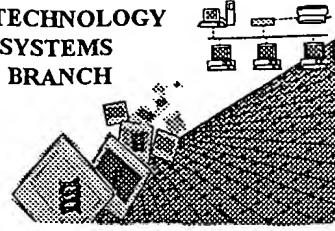


BIOTECHNOLOGY  
SYSTEMS  
BRANCH



P#17

RAW SEQUENCE LISTING  
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

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JAN 06 2003

Application Serial Number: 09/597,796 B

Source: 1600

Date Processed by STIC: 12/27/2002

TECH CENTER 1600/25

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or, 16 <1600> PRIOR FILING DATE: 1998-04-07**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212/23, 04-07**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216/07, 04-07**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER**

**VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

**Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:**

1. **EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202**
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\*09597796\*

1600

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/597,796B

DATE: 12/27/2002

TIME: 15:07:36

JAN 06 2003

Input Set : A:\14058905.app

Output Set: N:\CRF4\12272002\I597796B.raw

TECH CENTER 1600/29

3 <110> APPLICANT: Skeiky, Yasir  
 4 Reed, Steven  
 5 Alderson, Mark  
 6 Corixa Corporation  
 8 <120> TITLE OF INVENTION: Fusion Proteins of Mycobacterium Tuberculosis  
 10 <130> FILE REFERENCE: 014058-009050US  
 12 <140> CURRENT APPLICATION NUMBER: US 09/597,796B  
 13 <141> CURRENT FILING DATE: 2000-06-20  
 15 <150> PRIOR APPLICATION NUMBER: US 09/056,556  
 16 <151> PRIOR FILING DATE: 1998-04-07  
 18 <150> PRIOR APPLICATION NUMBER: US 09/223,040  
 19 <151> PRIOR FILING DATE: 1998-12-30  
 21 <150> PRIOR APPLICATION NUMBER: WO PCT/US99/07717  
 22 <151> PRIOR FILING DATE: 1999-04-07  
 24 <150> PRIOR APPLICATION NUMBER: US 09/287,849  
 25 <151> PRIOR FILING DATE: 1999-04-07  
 27 <150> PRIOR APPLICATION NUMBER: US 60/158,338  
 28 <151> PRIOR FILING DATE: 1999-10-07  
 30 <150> PRIOR APPLICATION NUMBER: US 60/158,425  
 31 <151> PRIOR FILING DATE: 1999-10-07  
 33 <160> NUMBER OF SEQ ID NOS: 30  
 35 <170> SOFTWARE: PatentIn Ver. 2.1  
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 39 <212> TYPE: DNA  
 40 <213> ORGANISM: Mycobacterium tuberculosis  
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 43 <223> OTHER INFORMATION: Ra35, N-terminus of MTB32A (TbRa35FL)  
 45 <220> FEATURE:  
 46 <221> NAME/KEY: CDS  
 47 <222> LOCATION: (1)..(588)  
 48 <223> OTHER INFORMATION: Ra35  
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 53 aacaacgccc tgggcgcggg gaccggcatc gtcatcgatc ccaacgggtt cgtgctgacc 180  
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 60 gtcaacggcc taggacaggt ggtcggtatg aacacggccg cgtcctag 588

Does Not Comply  
Corrected Diskette Needed

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/597,796B

DATE: 12/27/2002  
TIME: 15:07:36

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Output Set: N:\CRF4\12272002\I597796B.raw

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65 <212> TYPE: PRT  
66 <213> ORGANISM: Mycobacterium tuberculosis  
68 <220> FEATURE:  
69 <223> OTHER INFORMATION: Ra35, N-terminus of MTB32A (TbRa35FL)  
71 <400> SEQUENCE: 2  
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73 1 5 10 15  
74 Pro Leu Asp Pro Ser Ala Met Val Ala Gln Val Gly Pro Gln Val Val  
75 20 25 30  
76 Asn Ile Asn Thr Lys Leu Gly Tyr Asn Asn Ala Val Gly Ala Gly Thr  
77 35 40 45  
78 Gly Ile Val Ile Asp Pro Asn Gly Val Val Leu Thr Asn Asn His Val  
79 50 55 60  
80 Ile Ala Gly Ala Thr Asp Ile Asn Ala Phe Ser Val Gly Ser Gly Gln  
81 65 70 75 80  
82 Thr Tyr Gly Val Asp Val Val Gly Tyr Asp Arg Thr Gln Asp Val Ala  
83 85 90 95  
84 Val Leu Gln Leu Arg Gly Ala Gly Gly Leu Pro Ser Ala Ala Ile Gly  
85 100 105 110  
86 Gly Gly Val Ala Val Gly Glu Pro Val Val Ala Met Gly Asn Ser Gly  
87 115 120 125  
88 Gly Gln Gly Gly Thr Pro Arg Ala Val Pro Gly Arg Val Val Ala Leu  
89 130 135 140  
90 Gly Gln Thr Val Gln Ala Ser Asp Ser Leu Thr Gly Ala Glu Glu Thr  
91 145 150 155 160  
92 Leu Asn Gly Leu Ile Gln Phe Asp Ala Ala Ile Gln Pro Gly Asp Ser  
93 165 170 175  
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95 180 185 190  
96 Ala Ala Ser  
97 195  
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109 <221> NAME/KEY: modified\_base  
110 <222> LOCATION: (1460)  
111 <223> OTHER INFORMATION: n = g, a, c or t  
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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/597,796B

DATE: 12/27/2002  
TIME: 15:07:36

Input Set : A:\14058905.app  
Output Set: N:\CRF4\12272002\I597796B.raw

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 122 ggcggccccc cccgcctgt cgcaaggaccg gttcggccac ttcccccgc tgccccctcg 240  
 123 cccgtccgcg atggtcgccc aagtggcgc acagggtgtc aacatcaaca ccaaactggg 300  
 124 ctacaacaac gccgtggcg cgggaccgg catcgcatc gatcccaacg gtgtcgtgct 360  
 125 gaccaacaac cacgtgatcg cgggcgcac cgacatcaat gcggtcagcg tcggctccgg 420  
 126 ccaaacc tac ggcgtcgatg tggctggta tgaccgcacc caggatgtcg cgtgctgca 480  
 127 gctgcgcgt gccgggtggcc tgccgtcggc ggcgatcggt ggcggcgtcg cggttggta 540  
 128 gcccgtcgtc gcgatggca acagcggtgg gcaaggccgaa acgcccgtg cgtgctgctgg 600  
 129 cagggtggtc ggcgtcggcc aaaccgtgca ggctgtcgat tcgctgaccg gtgcgcgaaga 660  
 130 gacattgaac ggggtgatcc agttcgatgc cgcaatccag cccggtgatt cgggcgggccc 720  
 131 cgtcgtaac ggcctaggac aggtggtcgg tatgaacacg gccgcgtccg ataacttcca 780  
 132 gctgtccca ggtggcagg gattcgccat tccgatcggt caggcgatgg cgatcgccgg 840  
 133 ccaaatccga tcgggtgggg ggtcaccac cgttcatatc gggcctaccg ctttcctcg 900  
 134 cttgggtgtt gtcgacaaca acggcaacgg cgacacgagtc caacgcgtgg tcggaagcgc 960  
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 136 gatcaactcg gccaccgcg tggcggacgc gcttaacggg catcatccg gtgacgtcat 1080  
 137 ctcggtaac tggcaaacca agtcggcggg caccgtatac gggAACGTGA cattggccga 1140  
 138 gggacccccc gcctgatttg tcgccccatac caccggccgg cggcacaatttggattggcgc 1200  
 139 cagccgtgat tgccgcgtga gcccccgagt tccgtctccc gtgcgcgtgg cattgtggaa 1260  
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 148 tacggtgact attacgtgtg gaggcacaacc agcgacgcgt acaccgacgc cccggatcatc 1800  
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 150 gcaccgattc tt 18720  
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 155 <212> TYPE: PRT  
 156 <213> ORGANISM: Mycobacterium tuberculosis  
 158 <220> FEATURE:  
 159 <223> OTHER INFORMATION: MTB32A (TbRa35FL) protein  
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 165 20 25 30  
 166 Ala Pro Pro Ala Leu Ser Gln Asp Arg Phe Ala Asp Phe Pro Ala Leu  
 167 35 40 45  
 168 Pro Leu Asp Pro Ser Ala Met Val Ala Gln Val Ala Pro Gln Val Val  
 169 50 55 60  
 170 Asn Ile Asn Thr Lys Leu Gly Tyr Asn Asn Ala Val Gly Ala Gly Thr  
 171 65 70 75 80  
 172 Gly Ile Val Ile Asp Pro Asn Gly Val Val Leu Thr Asn Asn His Val

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/597,796B

DATE: 12/27/2002  
TIME: 15:07:36

Input Set : A:\14058905.app  
Output Set: N:\CRF4\12272002\I597796B.raw

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 174 Ile Ala Gly Ala Thr Asp Ile Asn Ala Phe Ser Val Gly Ser Gly Gln  
 175 100 105 110  
 176 Thr Tyr Gly Val Asp Val Val Gly Tyr Asp Arg Thr Gln Asp Val Ala  
 177 115 120 125  
 178 Val Leu Gln Leu Arg Gly Ala Gly Gly Leu Pro Ser Ala Ala Ile Gly  
 179 130 135 140  
 180 Gly Gly Val Ala Val Gly Glu Pro Val Val Ala Met Gly Asn Ser Gly  
 181 145 150 155 160  
 182 Gly Gln Gly Gly Thr Pro Arg Ala Val Pro Gly Arg Val Val Ala Leu 10  
 183 165 170 175  
 184 Gly Gln Thr Val Gln Ala Ser Asp Ser Leu Thr Gly Ala Glu Glu Thr  
 185 180 185 190  
 186 Leu Asn Gly Leu Ile Gln Phe Asp Ala Ala Ile Gln Pro Gly Asp Ser  
 187 195 200 205  
 188 Gly Gly Pro Val Val Asn Gly Leu Gly Gln Val Val Gly Met Asn Thr  
 189 210 215 220  
 190 Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln/Gly Phe Ala 75  
 191 225 230 235 240  
 192 Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln/Ile Arg Ser Gly  
 193 245 250 255 260  
 194 Gly Gly Ser Pro Thr Val His/Ile Gly Pro Thr/Ala Phe Leu Gly Leu 05 110  
 195 260 265 270  
 196 Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val Val 125  
 197 275 280 285  
 198 Gly Ser Ala Pro Ala Ala Ser Leu Gly/Ile Ser Thr Gly Asp Val Ile  
 199 290 295 300 3007  
 200 Thr Ala Val Asp Gly Ala Pro/Ile Asn Ser/Ala Thr/Ala Met Ala Asp  
 201 305 310 315WA 320  
 202 Ala Leu Asn Gly His His Pro/Gly Asp Val/Ile Ser/Val/Asn/Trp Glu 80 85 90 95  
 203 325 330 335  
 204 Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu Gly  
 205 340 345 350  
 206 Pro Pro Ala  
 207 355  
 210 <210> SEQ ID NO: 5  
 211 <211> LENGTH: 447  
 212 <212> TYPE: DNA  
 213 <213> ORGANISM: *Mycobacterium tuberculosis*  
 215 <220> FEATURE:  
 216 <223> OTHER INFORMATION: MTBRA12 C-terminus of MTB32A (Ra35FL)  
 218 <400> SEQUENCE: 5  
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 220 cattccgatc gggcaggcga tggcgatcgc gggccagatc cgatcgggtg gggggtcacc 120  
 221 caccgttcat atcgggccta ccgccttcct cggcttgggt gttgtcgaca acaaacggcaa 180  
 222 cggcgacacga gtccaaacgcg tggtcggag cgctccggcg gcaagtctcg gcatctccac 240  
 223 cggcgacgtg atcaccgcgg tcgacggcgc tccgatcaac tcggccaccc cgatggcgaa 300  
 224 cgcgttaac gggcatcatc ccggtgacgt catctcggtg aactggcaaa ccaagtccgg 360  
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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/597, 796B

DATE: 12/27/2002  
TIME: 15:07:36

Input Set : A:\14058905.app  
Output Set: N:\CRF4\12272002\I597796B.raw

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 230 <211> LENGTH: 132  
 231 <212> TYPE: PRT  
 232 <213> ORGANISM: *Mycobacterium tuberculosis*  
 234 <220> FEATURE:  
 235 <223> OTHER INFORMATION: MTBRA12 C-terminus of MTB32A (Ra35FL)  
 237 <400> SEQUENCE: 6  
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 240 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser  
 241 20 25 30  
 242 Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly  
 243 35 40 45  
 244 Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val  
 245 50 55 60  
 246 Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val  
 247 65 70 75 80  
 248 Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala  
 249 85 90 95  
 250 Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp  
 251 100 105 110  
 252 Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu  
 253 115 120 125  
 254 Gly Pro Pro Ala  
 255 130  
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 259 <211> LENGTH: 3058  
 260 <212> TYPE: DNA  
 261 <213> ORGANISM: *Mycobacterium tuberculosis*  
 263 <220> FEATURE:  
 264 <223> OTHER INFORMATION: MTB39 (TbH9) cDNA full-length  
 266 <400> SEQUENCE: 7  
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 268 ggcataccca gagatgttgg cggcgccggc tgacaccctg caagacatcg gtgttaccac 120  
 269 tgtggcttagc aatgcccgtg cggcgccccc gacgactggg gtgggtgcccc ccgttgccga 180  
 270 tgaggtgtcg gcgctgactg cggcgcactt cggccgacat gccgcgtatgt atcagtccgt 240  
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 272 ctcgtatgct gccaactgaaatgc ggcggcgcc agctaagcca ggaacacgtcg 360  
 273 gcacgagaaa ccacgagaaa tagggacacg taatgttggaa tttcgccccg ttaccaccgg 420  
 274 agatcaactc cgcgaggatg tacggccggcc cgggttcggc ctcgctggtg gccgcggctc 480  
 275 agatgtggaa cagcggtggcg agtgacctgt tttcgccgc gtcggcggtt cagtcggtg 540  
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 277 cctcgccgta tgtggcgtgg atgagctca ccgcggggca ggccgagctg accgcggccc 660  
 278 aggtccgggt tgctgccccg gcttacgaga cggcgatgg gctgacggtg ccccccgggg 720  
 279 tgatcgccga gaaccgtgtc gaactgtatga ttctgtatgc gaccaacccctc ttggggcaaa 780  
 280 acaccccgcc gatcgccgtc aacgaggccg aatacggcga gatgtggcc caagacgccc 840  
 281 ccgcgtatgtt tggctacgccc gcgccgacgg cgacggcgac ggcgacgttg ctggccgtcg 900  
 282 aggaggcgcc ggagatgacc agcgccgggtg ggctcctcga gcaggccgccc gcggtcgagg 960

09/577,796B

6

<210> SEQ ID NO 25  
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<212> TYPE: DNA  
<213> ORGANISM: Mycobacterium tuberculosis  
<220> FEATURE:  
<223> OTHER INFORMATION: MTB39 (TbH9) cDNA  
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cccggcgtac gcggtcaacg agggcgaata cggcgagatg tgggccaag acgcccggc 240  
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ggcggccctcg gtacggatcg gtcaccggaa tggcgaaaa tatgcanagt ctggtcggcg 780  
gaacggtggt ccggcgtaag gtttacccccc gtttcttggg tgccgtgaac ttctgtcaacg 840  
gaaacagttt c 851

see  
P. 8 for

error  
explanation

<210> SEQ ID NO 26  
<211> LENGTH: 263  
<212> TYPE: PRT  
<213> ORGANISM: Mycobacterium tuberculosis  
<220> FEATURE:  
<223> OTHER INFORMATION: MTB39 (TbH9)  
<400> SEQUENCE: 26

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35 40 45  
Ile Ala Thr Asn Leu Leu Gly Gln Asn Thr Pro Ala Ile Ala Val Asn  
50 55 60  
Glu Ala Glu Tyr Gly Glu Met Trp Ala Gln Asp Ala Ala Ala Met Phe  
65 70 75 80  
Gly Tyr Ala Ala Ala Thr Ala Thr Ala Thr Ala Thr Leu Leu Pro Phe  
85 90 95  
Glu Glu Ala Pro Glu Met Thr Ser Ala Gly Gly Leu Leu Glu Gln Ala  
100 105 110  
Ala Ala Val Glu Glu Ala Ser Asp Thr Ala Ala Ala Asn Gln Leu Met  
115 120 125  
Asn Asn Val Pro Gln Ala Leu Lys Gln Leu Ala Gln Pro Thr Gln Gly  
130 135 140  
Thr Thr Pro Ser Ser Lys Leu Gly Gly Leu Trp Lys Thr Val Ser Pro  
145 150 155 160  
His Arg Ser Pro Ile Ser Asn Met Val Ser Met Ala Asn Asn His Met  
165 170 175  
Ser Met Thr Asn Ser Gly Val Ser Met Thr Asn Thr Leu Ser Ser Met  
180 185 190  
Leu Lys Gly Phe Ala Pro Ala Ala Ala Gln Ala Val Gln Thr Ala  
195 200 205  
Ala Gln Asn Gly Val Arg Ala Met Ser Ser Leu Gly Ser Ser Leu Gly

al  
P. 7

09/59/796B 7

210 215 220  
Ser Ser Gly Leu Gly Gly Val Ala Ala Asn Leu Gly Arg Ala Ala  
225 230 235 240  
Ser Val Arg Tyr Gly His Arg Asp Gly Gly Lys Tyr Ala (Xaa) Ser Gly  
245 250 255  
Arg Arg Asn Gly Gly Pro Ala  
260

see p. 8 for  
error explanation



8-0-8

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/597,796B

DATE: 12/27/2002  
TIME: 15:07:37

*Err 101 Explanation*  
Input Set : A:\14058905.app  
Output Set: N:\CRF4\12272002\1597796B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 1460,1854  
Seq#:11; N Pos. 30,33,2270  
Seq#:17; N Pos. 497,500,1136,1445,1487,1509,1515...  
Seq#:25; N Pos. 767  
Seq#:26; Xaa Pos. 254

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/597,796B

DATE: 12/27/2002  
TIME: 15:07:37

Input Set : A:\14058905.app  
Output Set: N:\CRF4\12272002\I597796B.raw

L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:1440  
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:1800  
L:546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:2220  
L:801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:480  
L:811 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1080  
L:817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1440  
L:818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1500  
L:1095 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:25  
L:1095 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:25  
L:1095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:720  
L:1139 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:26  
L:1139 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:26  
L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:240  
L:1194 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:27